

SEIDERSKI, J.

Measuring pressure of the cerebrospinal fluid. Pediat polska 28 no.10: 995-1000 Oct 1953. (CIML 25:5)

1. Of the Scientific Circle of the Internal Pediatric Students of the Pediatric Department of Warsaw Medical Academy (Heads—Prof. Z. Lejmbach, M.D. and Prof. T. Chrapowicki, M.D.). 2. Description of author's apparatus for determination of normal, increased, lowered and negative pressures. This apparatus is a combination of water and mercury manemeters.

CRESCIPI, JERZY

CRESCIPI, Antoni; MATERIAL, Ecresa; SEIDERSKI, Jerzy

CRESCIPII, Antoni; MATERIAL, Jerzy

CRESCIPII, Antoni

SEIDL, Ambrus

"Building fittings" by [Dr] Istvan Kalotay, Laszlo Czabalay, Reviewed by Ambrus Seidl. Epites szemle 7 no.2:61 '63.

SEIDL, Ambrus

Manufacture of "Thermopan", the Belgian heat-insulating glass. "Magy ep ipar 12 no.11/12:535-539 163.

SEIDL, Ambrus

Placement of heat-insulating glasses. Magy ep ipar 12 no.11/12:540-543 '63.

SEIDL, G.

TECHNOLOGY

Priodical: MAGY R TEXTILTECHNIKA Vol. 11, no. 1, Jan. 1959

SEIDL, G. Calendering in the bag industry. p. 19

Monthly List of East European Accessions (CEAI) LC, Vol. 8, No. 5, May 1959, Unclass.

SEIDL, Josef

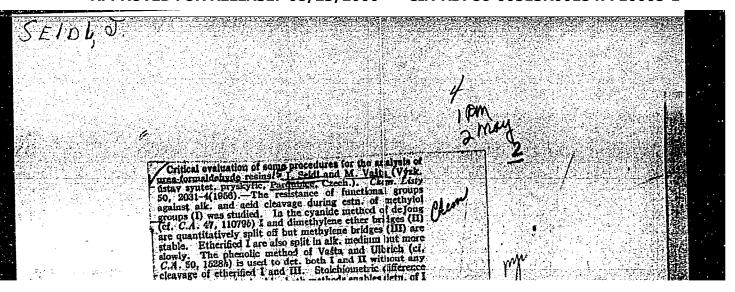
A new kind of highly acid polymer katex, Katex KP-1. Chem prum 14 no.6:322 Je '64.

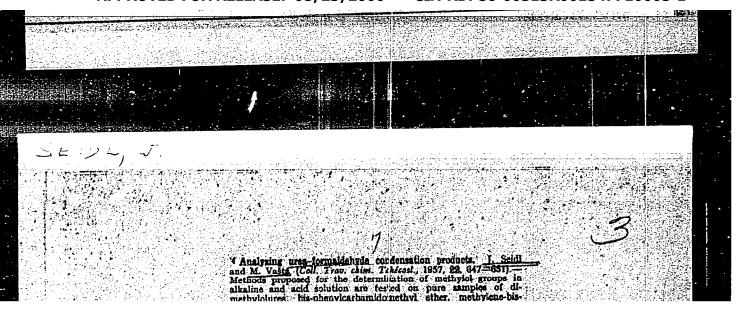
1. Research Institute of Synthetic Resins and Lacquers, Fardubice.

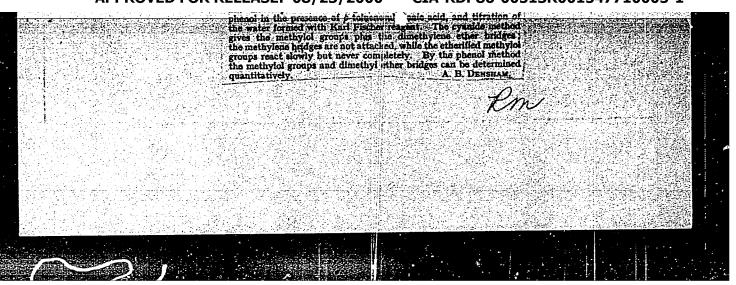
SEIDL, Josef; MALINSKY, Jaroslav; RAFM, Jan

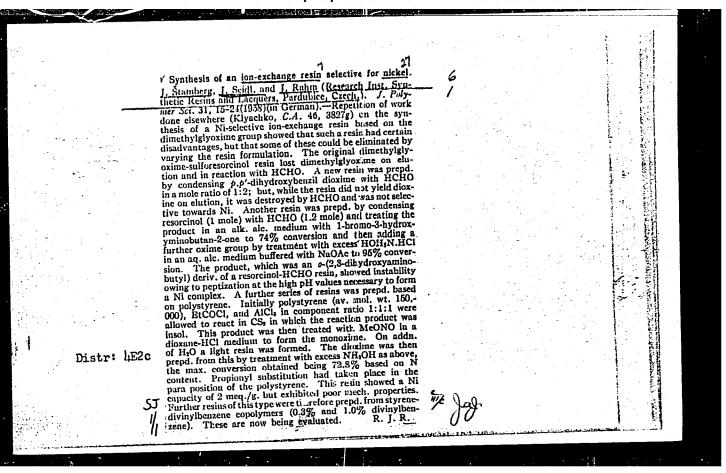
New trends in the development of ion-exchangers. Chem listy 58 no. 6:651-656 Je '64.

1. Research Institute of Synthetic Resins and Lacquers, Pardubice.









S/081/62/000/013/028/054 B177/B101

AUTHORS:

Štamberg, Jiri, Seidl, Josef

TITLE:

Extraction of germanium

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 13, 1962, 413, abstract

13K200 (Czech Patent 98054, January 15, 1961)

TEXT: Ge is extracted from the soot or ash of hard coal (0.001-0.01 % Ge) by conc. HCl. The extract is passed through an ion-exchange column, the column is flushed with pure 20 % HCl. and the Ge eluted with water. The eluate contains 2.5-10 g/l Ge and 0.3 % HCl. The Ge is extracted from the concentrate electrolytically, e.g. by anodic oxidation of the Cl⁻ ions, thereby depositing metallic Ge at the cathode, or by electrolyzing the eluate in a bath with an anion-exchange membrane. In the latter case the Ge may be separated in the form of GeO₂. Example: an extract of Ge in 20 % HCl (Ge concentration, 0.1 g/l) is passed through the column, then the ion-exchange resin is flushed with 20 % HCl (5-10 l) and distilled water. Removal of the eluate begins after the concentration of HCl in the

Card 1/2

Extraction of germanium

S/081/62/000/013/028/054 B177/B101

filtrate drops below 3 % (the ion-exchange resin being regenerated). The eluate obtained (10-15 1, Ge concentration 2.5-4 g/l, HCl concentration 0.3-0.5 %) is freed from the admixed HCl as indicated above.

[Abstracter's note: Complete translation.]

Card 2/2

Z/009/61/000/008/004/005 E112/E153

AUTHORS:

Dušek, Karel, Seidl, Josef, Malinský, Jaroslav, and

Dušková, Dagmar

TITLE:

Evaluation of the swelling capacity of ion-exchangers

based on styrene-divinylbenzene copolymers

PERIODICAL: Chemický průmys1, 1961, No.8, pp. 439-443

The present paper is part of an investigation of the properties of ion exchange resins derived from styrene-divinyl-TEXT: benzene copolymers. The swelling capacity of tridimensional polymers provides an important clue to their internal structure and to the number of cross-linkages. The swelling capacity of styrenedivinylbenzene copolymers plays an important role when introducing functional groups, e.g. chloromethylation, followed by quaternation, and has an important bearing on the properties of the final exchange resins. The authors have assessed different methods for the determination of swelling capacity and have arrived at these 1) Centrifugation method. Simple, and suitable for series of comparative tests. Reproducibility of results very Sources of errors may be incomplete removal of satisfactory. Card 1/5

Z/009/61/000/008/004/005 Evaluation of the swelling capacity... E112/E153

solvent from the resin particles. Caution is recommended when determining swelling characteristics of copolymers with only a few cross-links, because the gravitational field of the centrifuge could affect the real swelling capacity. The method is not very suitable for the study of temperature effects on swelling 2) Isothermic distillation in desiccators. characteristics. Method is experimentally very simple, but not quite exact. Errors may be caused by evaporation of solvent between opening of the desiccator tap and closing of weighing bottle. Efficient thermostating of the whole system (including desiccator tap) is 3) Isothermic distillation with spring balance. A diagrammatic sketch of apparatus is shown in Fig. 2. The method permits the rate of sorption to be followed and temperature effects to be studied. The equipment should be placed in an air thermostat. The main advantage of the method is given by the fact that the 4) Dilatometric entire sorption isotherms can be computed. method. Provides the only means of measuring changes of volume produced by swelling: it is not suitable for finely granulated copolymers because mercury is incapable of filling up completely all the areas between the spherical particles. Maxima of Card 2/5

Evaluation of the swelling capacity... E112/E153

deviations for copolymers of comparatively small granular size (0.1 to 0.2 mm) may amount to as much as ± 10%. The dilatometric method permits the determination of the temperature effects on 5) Microscopic method. Not very swelling characteristics. accurate, allowing only linear changes of granular dimensions to be measured. Can be used with advantage to determine swelling characteristics of individual granules. The above mentioned procedures are not applicable to porous copolymers. Results obtained by the different methods are tabulated, showing the swelling of styrene-divinylbenzene copolymers (with increasing proportions of divinylbenzene) in toluene and chloroform. There are 4 figures, 4 tables and 15 references: 7 English, 5 German, 2 Soviet and 1 Czech. The English language references read: Ref. 3: H.P. Gregor, K.M. Held and J. Bellin. Anal. Chem. V.23, 620 (1951). Ref. 10: K.W. Pepper. J. Appl. Chem., 1, 124 (1951). Ref. 11: K.W. Pepper. J. Chem. Soc., 1952, 2129. Ref. 14; L.R.G. Trelcar. Proc. Roy. Soc. A 200, 176 (1950). Card 3/5

Evaluation of the swelling capacity. Z/009/61/000/008/004/005

ASSOCIATION: Výzkumný ústav syntetických pryskyřic a laků.
Pardubice (Research Institute for Synthetic Resins and Paints, Pardubice)

SUBMITTED: January 15, 1961

Z/009/63/000/002/003/004 E112/E492

AUTHORS:

Seidl, Josef and Malinsky, Jaroslav

TTTT.E:

Density and porosity studies on a styrene-divinylbenzene copolymer matrix for ion-exchange resins

PERIODICAL: Chemický průmysl, no.2, 1963, 100-104

The present paper discusses the effects of variations of polymerization conditions on the porosity and other physical properties of styrene-divinylbenzene copolymers, as structures on which to attach cation or anion-active groups. Porosity data were obtained from the difference in apparent and specific density of the dried matrix. Pyknometric techniques were applied, using mercury for the former and ethyl alcohol for the latter determinations. The following structures were compared: 1) standard styrene-divinylbenzene copolymer, containing 10% divinylbenzene; 2) styrene-divinylbenzene copolymers, prepared by copolymerization in presence of an inert, low molecular-weight diluent, such as ethylbenzene or isooctane; 3) styrene-divinylbenzene copolymer, prepared by copolymerization in presence of an inert, high molecular-weight diluent, such as polystyrene. The standard copolymers were transparent, vitreous and tough. Card 1/3

Density and porosity studies ...

Z/009/63/000/002/003/004 E112/E492

introduction of increasing quantities of isooctane (in which the final copolymer shows no swelling) into the system, produces opaque structures with reduced mechanical strength. Copolymers, produced in presence of polystyrene show, after extraction with benzene, similar opacity but are generally less brittle. following factors are summarized in the form of tables or graphs: 1) Effect of concentration of inert polystyrene diluent on extractability. The latter increases almost linearly with the increase of polystyrene concentration. 2) Effect of cross-linking on extractability. An increase of divinylbenzene, as crosslinking agent, reduces the extractability only slightly. 3) Effects of cross-linking on specific gravity. As the proportion of divinylbenzene is increased, specific gravity increases only insignificantly. 4) Effects of inert polystyrene addition on specific gravity. The latter is independent of the polystyrene concentration. 5) Effects of molecular weight of polystyrene diluent on specific and apparent gravity. A decrease of apparent density was recorded only when the molecular weight of polystyrene was 57×10^3 or over. 6) Effects of isooctane

Z/009/63/000/002/003/004 E112/E492

Density and porosity studies ...

addition on apparent density. An effect is exerted only when the degree of cross-linking is high, i.e. in copolymers with a high content of divinylbenzene. 7) Comparison of porosity, using polystyrene diluents with molecular weights of 57 x 10³ and 87 x 10³ respectively. At lower concentrations the high molecular-weight polystyrenes produce improved porosities. The effect is, however, reversed at higher concentrations, when their own porosity characteristics become the predominant features. The expressions "true" and "pseudo" porosity are discussed. True porosity is essential to obtain a polymer matrix of adequate physical strength and suitable flow-rate properties. There are 6 figures and 7 tables.

ASSOCIATION: Výzkumný ústav syntetických pryskyřic a laků,

Pardubice (Research Institute for Synthetic Resins

and Paints, Pardubice)

SUBMITTED: October 1, 1961

Card 3/3

SAYDL, I. [Seidl, J.] (Fardubitse, Chekhoslovatskava Sotsialisticheskaya Respublika); MALINSKI, Ya. [Malinsky, J.] (Partubitse, Chekhoslovatskaya Respublika); DUSHEK, K. [Dusek, K.] (Partubitse, Chekhoslovatskaya Sotsialisticheskaya Respublika)

Ion exchanger bodies with a porous structure based on styrene and divinylbenzene copolymers. Plast.massy no.12:7-11 '63. (MIRA 17:2)

DUSEK, Karel; SEIDL, Josef; MALINSKY, Jaroslav

Swelling rate of ion exchange skeletons based on copolymers of styrene with divinyl benzene depends on their structure. Pt. 2. Chem prem 13 no. 12: 662-666 D '63.

1. Vyzkumny ustav syntetickych pryskyric a laku, Pardubice.

MALINSKY, Jaroslav; Shift, Juset

Jones skeletons. 1. 13. Enem prum 14 no.8:410-419 Ag 164.

1. Pescarch institute of Synthetic Resins and Lacquers, Pardubice.

CZECHOSLOVAKIA

SEIDL, J; DUSEK, K

Research Institute for Synthetic Resins and Lacquers, Pardubice - (for both)

Prague, Collection of Czechoslovak Chemical Communications, No 7, July 1966, pp 2695-2700

"On the skeletons of ion exchangers. Part 17: Equilibria in ternary systems composed of styrene copolymer with divinylbenzene, toluene and 2,2,4-trimethylpentane or butyl alcohol."

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their

Application. Chemico-Technological Problems of Nuclear

Ingineering.

H-7

Abs Jour: Referat Zhur-Khimiya, No 5, 1958, 15047.

Seidl Karel Author :

Inst

BEIDA, 大概形成

Preparation of Pure Compounds of Uranium from Ore. Title

Chem. prumysl, 1957, 7, No 6, 297-299. Orig Pub:

Abstract: A review. Bibliography 8 references.

; 1/1 Card,

CZECHOSLOV.KIA/Chemical Technology. Chemical Products and Their Uses. Part II. Chemical and Technological Aspects of Nuclear Industry.

Abs Jour : Ref Zhur-Khimiya, No 15, 1953, 50832

: Seidl, Karel Luthor

Inst Title

: Proparation of Matallic Uranium.

Orig Pub: Chem. Prumysl, 1957, 7, No 12, 649-651

Lbstract : A survey of contemporary methods of pre-

paration of metellic uranium by reduction

of its compounds. -- I. Elinek

: 1/1 Card

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CZECHOSLOVAKIA/Chemical Tachnology. Chemical Products and Their Ap- H-7 plication. Chemical and Technological Aspects of the Nuclear Industry

Abs Jour : Ref Zhur - Khim., No 24, 1958, No 82208

Author : Seidl K., Beranek M.

Inst : - Methylcyclohexanon - New Solvent for the Extraction of

(1) 大学 (1) 的 **计算差别**的 (2) (4)

Title : Methylcyclonexanon- New Solvent for the Interest of Uranium and for the Separation of Uranium from Thorium

Orig Pub: Chem. listy, 1958, 52, No 2, 337-339

Abstract: The separation of U is achieved from the water solution without the addition or in the presence of NaCO3 and HNO3. It has been established that the best salting-out reagent is NaNO3, while in the presence of HNO3 the separation is impaired. The reextraction of a U slat from methylcyclo-

impaired. The reextraction of a U stat from methyleyers hexanon with the aid of a saturated caustic solution yielded 99.9% of the original quantity. Advantages of methyleyclohexanon, compared to other reagents employed,

Card : 1/2

21

Termi, E.; Benevik, ...

"Moting Toy contexanone, a new solvent for the extraction of uranium and the severation of uranium from thorium." In German. p. 298.

CCLLICTION OF CHICHCSLOVAK CHEMICAL COMMUNICATIONS, Preha, Czech., Vol. 24, No. 1, Jan. 1959

Monthly List of Bast European Accessions (EEAI), LC. vol. 8, No. 6, Sept. 59

Unclassified

1:12

cz/38-60-1-3/24

AUTHORS:

Teplý, Jiři and Seidl Karel

TITLE

Organic Moderators and Coolants

PERIODICAL:

Jaderná Energie, 1960, No. 1, pp. 6 - 8

TEXT: The author discusses the problems arising from the utilization of organic moderator coolants for nuclear reactors and analyses some criteria for the choice of organic materials. He concentrates on polyfenyl which he considers best suited for this purpose. Next, he deals with property changes of several compounds caused by radiation and heating. Detailed descriptions are given of the Organic Moderated Reactor Experiment (OMRE-Idaho) and the Canadian heavy-water moderated power reactor using an organic coolant. There are 4 diagrams, 1 table and 8 references, 1 of which is Soviet, 6 American and 1 French.

ASSOCIATION:

Ústav jaderného výzkumu ČSAV, Praha (<u>Nuclear Research Institute</u> ČSAV, Prague)

Card 1/1

AUTHORE

Seral, Karel

TITLE

Organic compounds as moderator-coolants in nuclear reactors

PERIODICAL: Chemické listy, 1961, No.6, pp. 645-652

A literature survey (up to and including 1958) of the TEXT uses of organic compounds, particularly terphenyls, as moderatorcoclants in nuclear reactors, is presented. It is based mainly on reports of the first and second Conferences for the Peaceful Uses of Atomic Energy, held in Geneva in 1955 and 1958. No contribution from Czechoslovak workers is reported. The subject matter is 1) advantages and disadvantages of organic discussed as follows: 2) method of preliminary testing of organic compounds for moderator-coolant suitability. Static and dynamic radiation Sources of radiation are: electrons from methods are applied. the Van de Graaf generator, gamma rays from 60co, and from burnt Values for G, introduced by Burton and indicating up uranium. number of molecules produced from an original compound after absorption of 100 eV energy, are listed for a number of organic Card 1/ 4

Organic compounds as moderator-coolants in nuclear reactors

Preliminary tests have indicated that polyphenyls exhibited an outstanding stability to radiation up to 426-454 °C. 3) Radiation damage effects of different polyphenyls are discussed and critical temperatures, i.e. temperatures at which a sudden increase in rate of decomposition sets in, are listed. 4) Effects of sources of radiation on rate of decomposition of polyphenyls are tabulated, showing clearly that rate of decomposition was independent of the source. Favourable stability characteristics are described for Santowax R and OM (a mixture of terphenyls), and their compositions are tabulated. 5) Changes of physical constants, as a result of radiation and pyrolytic effects on the polyphenyls are briefly described. 6) OMRE (Organic Moderated Reactor Experiment), Idaho Falls, the first reactor using an organic compound moderator, is described and results are reported. Composition of the moderator used by OMRE and consisting of diphenyl and the three terphenyls, is given. 7) OMRE has reportedly provided information about the following: a) rate of hydrocarbon decomposition under radiation impact; b) separation

Card 2/4

Organic compounds as moderator-coolants in nuclear reactors and deposition of decomposition products - practically none; c) heat transfer properties - practically unaffected; d) melting point - all samples of moderator OMRE containing more than 6-7% of the high-boiling fraction remained liquid on cooling to normal e) efficiency as moderator - very low thermaltemperature: neutron cross-section; impurities readily removed by distillation; concentration of high-boiling fraction easily maintained at required level; f) maintenance - very easy. OMRE operated from 1st January to 23rd June 1958 at 85% of the total time. There are 1 figure, 5 tables and 7 references: all English. The four most recent are: Ref. 3: J.R. Dietrich, W.H. Zinn. Solid fuel reactors. Addison-Wessley Publishing Company Inc., Reading, Massachusetts, U.S.A., 1958.

Ref.5: C.A. Trilling, D.W. Bareis, J.G. Burr, R.H.J. Gercke.
A study of the polyphenyls for use as moderators and coolants in nuclear power reactors. Ref. P/1779. II. Conference for the Peaceful Uses of Atomic Energy. 1958.

Card 3/4

Organic compounds as moderator-coolants in nuclear reactors

Ref.6: C.A. Trilling, The OMRE - A test of the organic moderator-coolant concept. Ref. P/421. II. Conference for the Peaceful Uses of Atomic Energy, Geneva, 1958.

Ref. 7: C.A. Trilling. Addendum to P/421. Operation of the OMRE, January-June 1958. II. Conference for the Peaceful Uses of Atomic Energy, Geneva 1958.

ASSOCIATION: Ústav jaderného výzkumu ČSAV, Praha (Institute of Nuclear Research, Czechoslovak Academy of Sciences, Prague)

Card 4/4

Z/038/62/000/007/002/006 D409/D301

AUTHOM:

Seidl, Karel_

TITLE:

High-temperature uranium fuels

Partioblosh:

Jaderná energie, no. 7, 1962, 225 - 230

This article, based on Western sources exclusively, lists requirements imposed on high-temperature reactor fuels, describes uranium alloys and compounds suitable for this purpose, and deals in detail with uranium monocarbide. There are 5 tables and 19 English-language references. (Technical Editor: V. Rýpar).

ASSOCIATION:

Ústav jaderného výzkumu ČSAV, Řež (Nuclear Research

Institute Czechoslovak AS, Řež)

Card 1/1

Z/038/62/000/010/004/005 D267/D307

2-14700

AUTHOR:

Seidl, Karel

TITLE:

Investigation of the dry-method preparation of

uranium dioxide from uranium metal

Jaderná energie, no. 10, 1962, 363-366

PERIODICAL:

Card 1/2

Results of the study of conditions prevailing during the oxidation of U with air, and of the alternate oxidation-reduction of UO₂ are presented in the form of tables. The experiments were carried out in the temperature range 300 - 700°C. The final result of the study is the following method of preparation: U metal is first oxidized to U308 by heating to 400°C in a stream of air: the obtained oxide is reduced with H2 at 650°C to UO2: the reactivity of the latter is enhanced by another oxidation-reduction cycle (oxidation at 400°C, followed by reduction at 650°C), the duration of both oxidation and reduction being not longer than strictly nection by the strictly nection of the strictly of the strictly nection of the strictly nection of the strictly nection of the strictly nection. essary. There are 7 tables. The most important English-language reference is: W.R. De Hollander, 'A process for improving the chemi-

SEIDL, Karel

Uranium dioxide as a nuclear fuel. Jaderna energie 9 no.2:49-58 F '63.

l. Ustav jaderneho vyzkumu, Ceskoslovenska akademie ved, Rez u Prahy.

THE

SEIDL, Karel

High temperature uranium fuels. Jaderna energie 8 no.7:225-230 Jl 162.

1. Ustav jaderneho vyzkumu, Ceskoslovenska akademie ved, Rez.

SEIDL, L.; KLIR, J.

"Synthesis of a cybernetic model of the conditioned reflex." p. 37.

SLABOPROUDY OBZOR. (MINISTERSTVO PRESNEHO STROJIRENSTVI, MINISTERSTVO SFOJU A VFDECKA TECHNICKA SPOLECNOST PRO ELEKTROTECHNIKU PRI CSAV.) Praha, Czechoslovakia, Vol. 20, no. 1, Jan. 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 9, September 1959. Uncl.

ы1712 S/044/62/000/010/031/042 В108/В102 \

AUTHORS;

Klin, Teali, Loidl, Lev

TITLE:

Codes for relay coincidence circuits

PERIODICAL:

Referativnyy zhurnal. Matematika, no. 10, 1962, 44 - 45, abstract 10V220(Stroje na zpracov. inform., v. 7, 1960, 21 - 55 (summaries in Czech, Eng., Fr., and Ger.)

TEXT: This study is devoted to the properties of the sequences $\{A_i\}$ of binary n-digit numbers A_i , in which two subsequent numbers differ from each other in only one digit (properties of Gray's codes) and in their coordinate sequences $\{h_i\}$ (sequences of the coordinate numbers which change on transition from the i-th to the (i+1)-st member of the sequence), $0 \leqslant h_i \leqslant n-1$. Cyclic and internally cyclic sequences are distinguished. A way is shown for their graphical representation in the form of a convex rectilinear polygon whose vertices are numbered by the indices i of the members of the sequence, and whose sides are numbered by the numbers h_i . Card 1/3

5/044/62/000/010/031/042 B108/B102

Codes for relay coincidence circuits

The relationships between $\{h_i\}$ and $\{h_i\}$ as well as the properties of $\{h_i\}$ are investigated. It is shown that a cyclic sequence Ai has an even number of members, and that the number of sequences with equal structure (sequences of one type) icontain. The concept of normal sequences is introduced and their projectics are examined. Also, the concept of internally symmetric conjuence is defined, i. e., that of an internally cyclic sequence which behaves cyclically for all pairs (i,i,)=(2r,2r+2q+1) without transgressing the property that one coordinate changes on the transition from the i-th member to the next. r = 1,2,....; q is a constant number out of the interval (1, $1/2i_{max}-1$). The coincidence sequences with q = 1 are discerned among the internally symmetric sequences. property $h_{2r} = h_{2r+2} \neq h_{2r+1}$, $1 \le r \le 1/2(i_{max}-1)$ of the coordinate sequences |hi| is demonstrated for the coincidence sequences. For n+1 digits, an algorithm for finding all coincidence sequences of one type is deduced. Reversible pulse counters with two inputs are proposed for a field of application. The resultant state of the counter depends on the Card 2/3

doden for relay coincid	enc circuits	S/044/62/000/010/0 B108/B102	31/042	:
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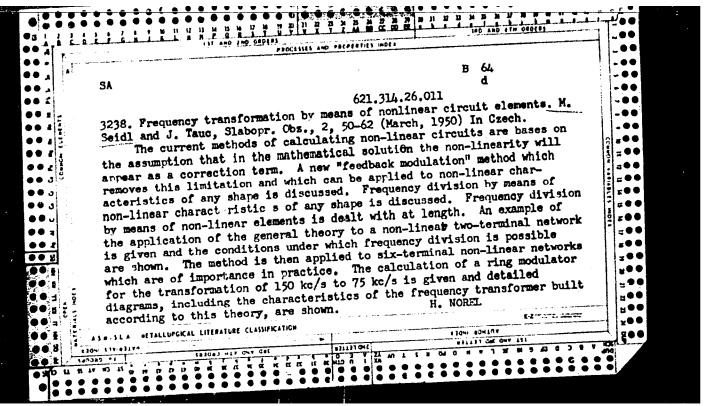
SEIDL, Luavik, Prim., Dr.

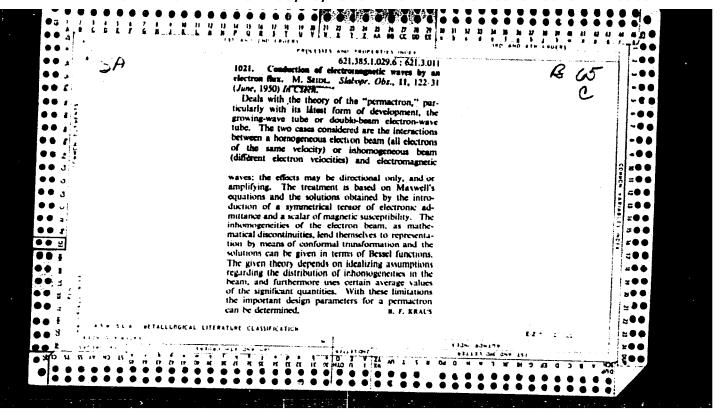
Accident rate in the Kladno miner and its analysis. Acta chir. orthop. traum. cech. 24 no.2:146-154 Mar 57.

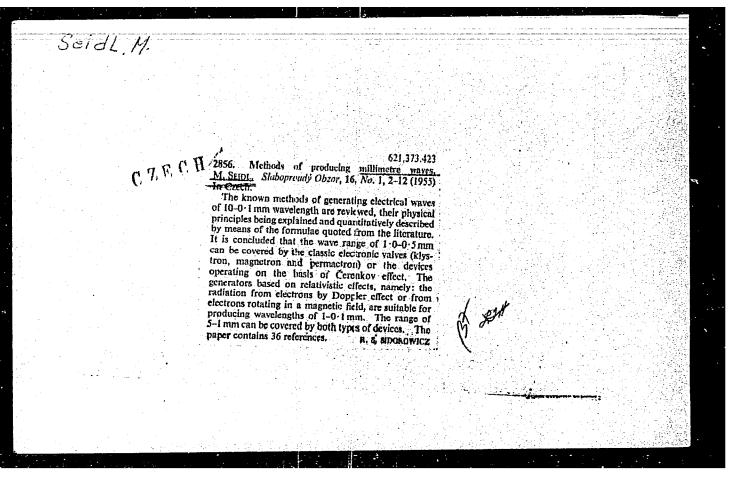
1. Orthopedicke urazove oddeleni v Kladne.

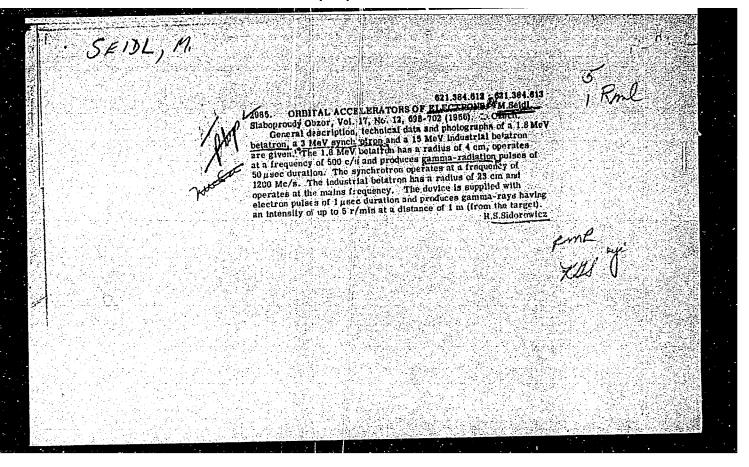
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accid. rate in Czech., statist. (Cz))









16(2),21(3)

AUTHOR:

Seid 1 , I

sov/56~36-4-51/70

TITLE:

The Statistical Mechanism of Electron Capture in the Betatron (Statisticheskiy mekhanizm zakhvata elektronov v betatrone)

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959, Vol 36, Nr 4, pp 1305-1306 (USSR)

ABSTRACT:

The theoretical investigation of the capture due to Coulomb interaction of electrons injected into a betatron, meets with mathematical difficulties which are connected with the interaction of the equation of motion. Kovrizhnykh and Lebedev (Ref 1), as well as Matveyev (Refs 2,3) have already achieved certain results. The author of the present "Letter to the Editor" investigates the capture mechanism and the statistical density distribution of electrons in the betatron. First, the physical picture of the phenomena is discussed and the characteristic experimental observations, about which the author has already reported (Refs 4,5), are described. The present theoretical investigation is based on the results of another previous paper (Ref 7), in which the author investigated the equilibrium of a toroidal electron beam in the case of certain simplifying assumptions. Equilibrium is determined

Card 1/3

The Statistical Mechanism of Electron Capture in the SOV/56-36-4-51/70 Betatron

by means of the parameters a = $2kT/E_0$ and b = P/P_0 (E_0 = qV_0) q = electron charge, V = injection voltage; P = $I/V^3/2$, I = current, P_0 = $3.33.10^{-5}$ A/ $V^3/2$). If a \gg b the radius of the cross section of the beam is g_0 = \sqrt{a} (in units of the radius r_0 of the equilibrium orbit), and for the charge density distribution in the beam it holds that $\sigma/\sigma_{max} = (b/g_0^2) \exp\left\{-(g/g_0)^2\right\}$; g = distance from the beam center, $\sigma_{max} = 2 \epsilon_0 V/r_0^2$. This is in good agreement with experimental investigations. Figure a shows the curves of constant charge density in percents of σ_{max} measured after 20 circulations after completed injection, figure b shows the same after 100 circulations. Measurement of the number of electrons ΔN and of the temperature Δa during Δt supplied the formulas

Card 2/3

The Statistical Mechanism of Electron Capture in the SOV/56-36-4-51/70 Betatron

$$\frac{\Delta N}{N} = -e^{-u} \frac{\Delta t}{r_p}; \quad \frac{\Delta a}{a} = -\frac{ue^{-u}}{1-e^{-u}} \frac{\Delta t}{r_p} \quad u = (f_m/f_0)^2;$$

 $ho_{\rm m}$ = shortest distance between the wall and the beam center, $au_{\rm p}$ = relaxation time. At the author's experimental conditions $au_{\rm p}$ ~ 1 microsecond. There are 2 figures and 7 references, 4 of which a Soviet and 3 Gzechoslovskian.

ASSOCIATION: Institut vakuumnoy elektroniki, g. Praga (Institute for Vacuum

Electronics, Prague)

SUBMITTED: November 21, 1958

Card 3/3

Z/037/60/000/005/045/056 E192/E382

AUTHOR: Seidl, M.

TITLE: The Trapping of Electrons Injected into a Betatron

PERIODICAL: Československý časopis pro fysiku, 1960, No. 5, p. 485

TEXT: A theory is given which describes the capture of the electrons injected into the constant magnetic field of a betatron. The reason for the capture is a strong collective interaction between the injected electrons. The mechanism causing this interaction is described and it is shown that the interaction results in the capture of the electrons. A similar mechanism for the energy exchange between the electrons is present also in a toroidal beam of the captured electrons and results in its instability which limits the magnitude of the captured charge. An expression for the magnitude of the charge which can be captured is given. The theoretical conclusions are corroborated by experimental results.

ASSOCIATION:

Ústav vakuové elektroniky ČSAV. Praha (Institute of Vacuum Electronics of the

CSAV, Prague)

Card 1/1

34.6730 34.6730 s/058/62/000/003/025/092

AUTHOR:

Seidl, M.

TITLE:

Bunching phenomena during electron injection into the betatron.

I. Experiments

PERIODICAL:

Referativnyy zhurnal, Fizika, no. 3, 1962, 3, abstract 3B35

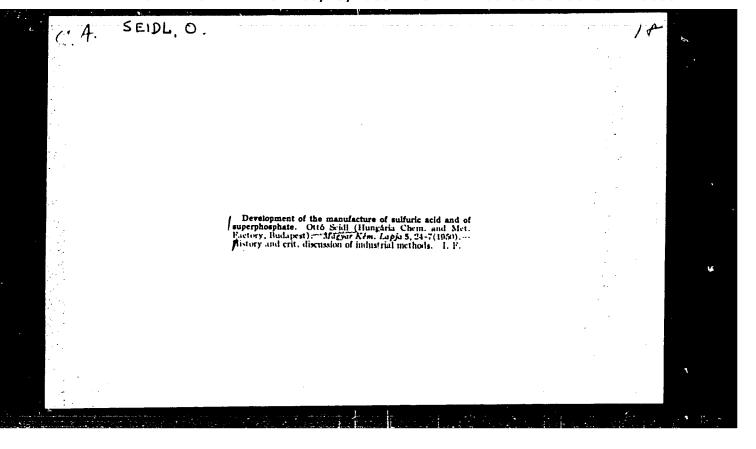
(Chekhosl. fiz. zh., 1961, v. Bll, no. 6, 390 - 405, English; Russian

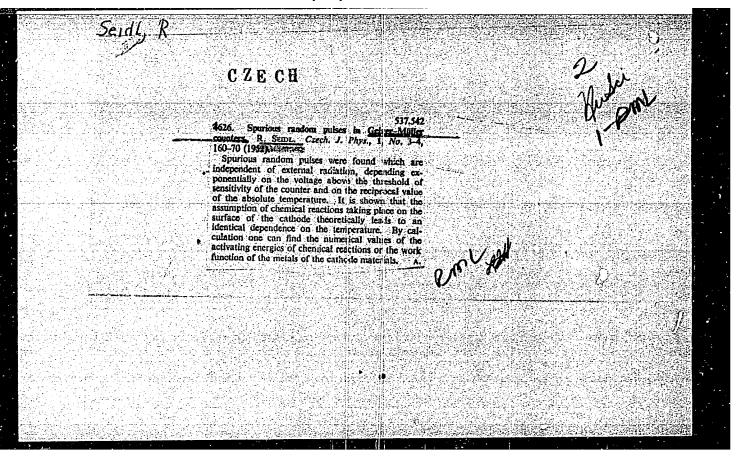
summary)

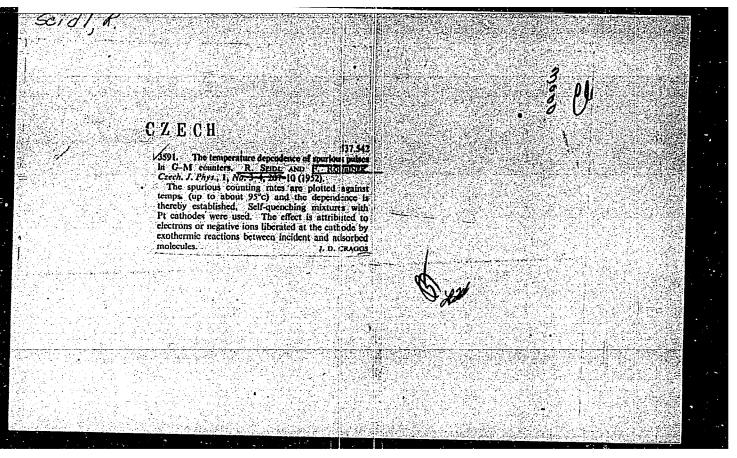
TEXT: Under suitable conditions, electrons injected into the betatron produce hf oscillations. The oscillating properties are experimentally investigated, and a correction is introduced into the earlier explanation of the nature of these oscillations which are caused by the azimuthal bunching of injected or captured electrons. The bunching is due to the regenerative amplification of fluctuations of the space charge density. The amplification results from azimuthal instability which was earlier studied theoretically. The bunching of injected electrons appears to be the primary cause of the capture of electrons injected into a constant or slowly changing magnetic field. The bunching of captured electrons limits the

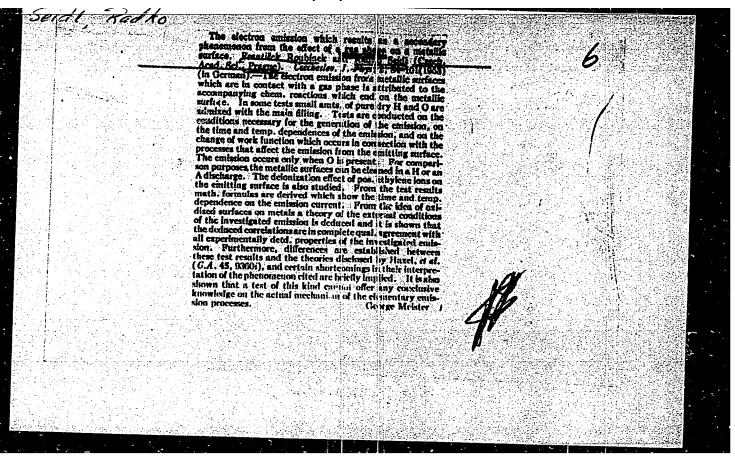
Card 1/2

B





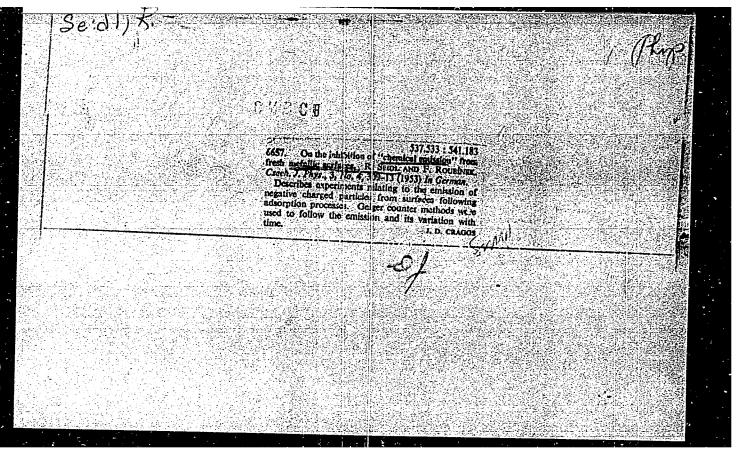




SEIDL, Radko.

Adsorption in the gaseous state on the surface of solids [in German]. Chekh.fiz.zhur. 3 no.3:258-259 S 153. (MLRA 7:6)

1. Institut tekhnicheskoy fiziki ChSAN, Praga. (Adsorption)



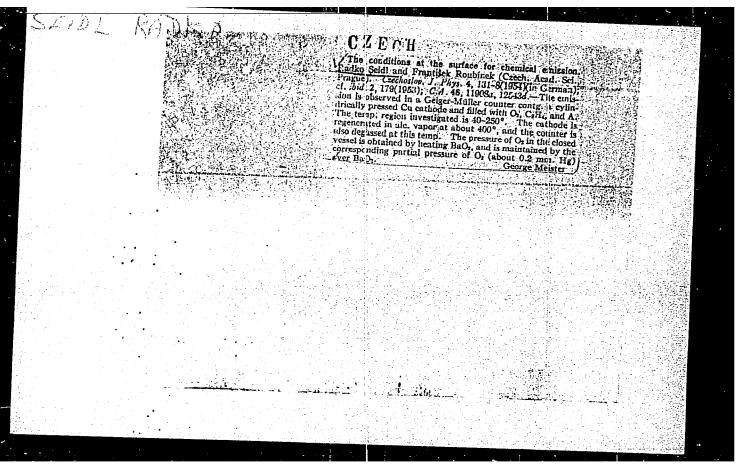
SEIDL, R.
ROUBINEK, F.

"External Conditions of Chemical Emission" P. 22

(CESKOSLOVENSKY CASOPIS PRO FYSIKU Vol. t, No. 1, Feb.1954 - Praha. Czech.)

SO: Monthly List of East European Accessions, (EFAL), LC, Vol. 4, No. 4,

April 1955, Uncl.

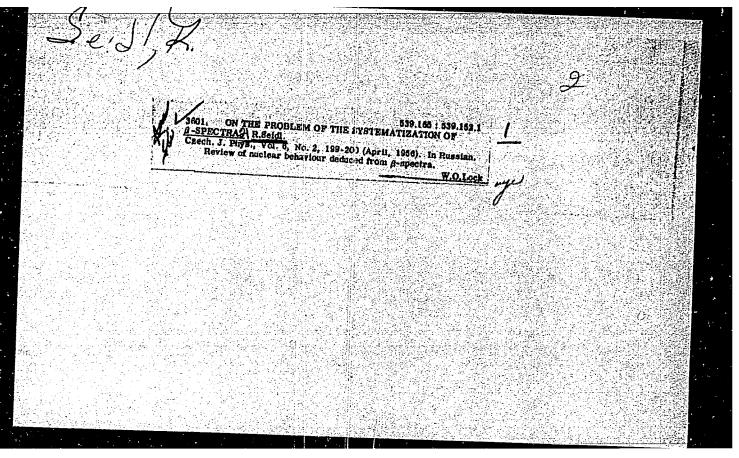


SLIDL, R.

Yechanism of emission process during chemical emission. p. 523. (GLSECSLOVENSKY CASOPIS PRO FYSIKU, Vol. 5, No. 5, Sept 1956, Fraha, Czechoslovakia)

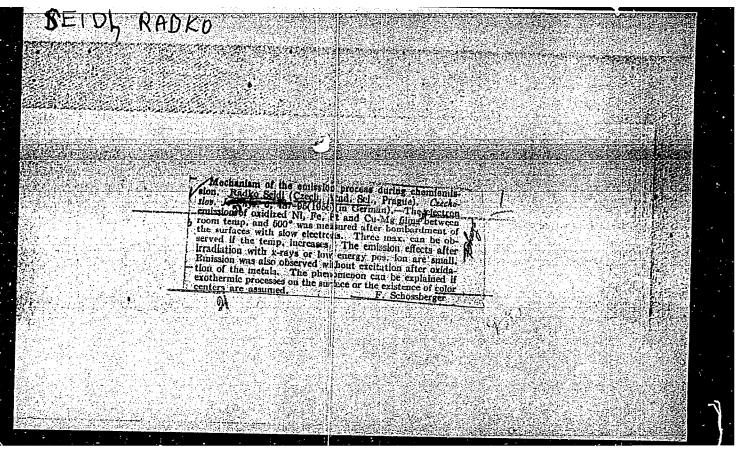
SJ: Monthly last of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

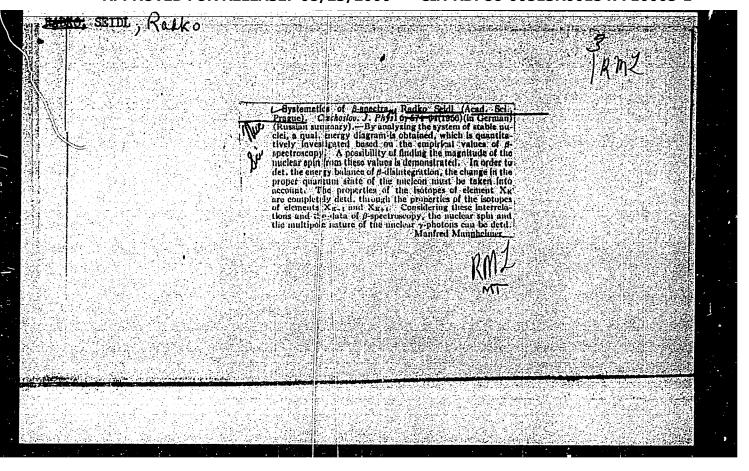
	<u>, R</u>	" " rent	
	7858. RADIOMETRY IN GEOPHYSICS. J. Backovsky and	2	
	R.Seidl. J. Phys., Vol. 0, No. 1, 75-83 (Jan., 1956). In Russian. From experience gained during numerous field surveys it		
	follows that: (1) The construction of portable instruments and auxiliary equipment for the relative measurement of redio- activity of the soil have proved useful both from the point of		
	view of technical applicability and economy as well as from the point of view of sensitivity, reproducibility and speed of measurement. (2) The use of G-M counters sensitive to 6-rays in a vertical position in shallow holes drilled in the soil increased.		
	a vertical position in shallow indicate the relative influence the share of the soil radiation and lowered the relative influence of cosmic ray background on the results of neasurements. (3) The conditions for the reproducibility of measurement in the		
	(3) The conditions for the regression of standardizing results field were determined. (4) A method of standardizing results was worked out for the simultaneous use of several instruments having a different relative sensitivity of various kinds of radi-		
	having a different relative sensitive to vivide the same action. (5) Radiometric mapping along lines having the same activity was carried out to eliminate the effect of isolated deviations caused by local conditions and to ensure a more reliable		
	ations caused by the results of measurements. (6) It was shown interpretation of the results of measurements. (b) It was shown by practical examples that by the radiometric method under suitable conditions it is possible to localize the position of tec-		
<u>660 </u>	suitable conditions it is possible to tocalize the conditions it is possible to tocalize the conditions of rocks having different activity even on covered formations. (7) Water and its motion in the earth has a considerable effect on the origin of riddoactive anomalies.		
	(3) A correlation was found to exist between the chemical com- position and the activity of the rock in a bed of manganese	. Keedi.	



Contribution to the systematization of E-spectra. P. 222
CESKOSLOVENSKY CASOPIS FRO FYSIKU. (Geskoslovenska akademie ved.
Ustav technicke fysiky) Praha
Vol. 6, no. 2, Mar. 1956

Source: EEAL - LC Vol. 5. No. 10 Oct. 1956





CZECHOSLOVAKIA/Electronics - Electron and Ion Emission

H-2

Abs Jour : Ref Zhur - Fizika, No 12, 1958, No 27970

: Soidl Radko Author

: Institute for Technical Physics, Czechoslovak Academy of Inst

Sciences, Prague, Czecheslovakia

: The Problem of Measurement of the Activation Energy in Title

Mon-stationary Emission Phenomena.

Orig Pub : Coskosl. casop. fys., 1958, 8, No 2, 233-237

Abstract : A simple approximate method is proposed for the determination

of the activation energy (\mathcal{E}) of processes that obey the

following law

 $J(t,T)=J_o(t) + \mathcal{H}\left(-\frac{\mathcal{E}}{\mathcal{H}T}\right).$

where J is the emission current, t the time, and T the absolute temperature. The method consists of choosing norm-

alizing factors that transform the equation of the process

to the form

Joseph (to, T) = const = H2 (- ET)

: 1/2 Card

21.5300

67004

AUTHOR: Radko Seidl

CZECH/37-59-1-10/26

TITLE:

Influence of the Emission Properties of the Anode on the

Characteristics of Geiger-Muller Counters N

PERIODICAL: Československý Časopis Pro Fysiku, 1959, Nr 1, pp 60-65

ABSTRACT: We define the counting range such that the lower limit is determined by the condition that each incident slow electron produces a discharge in the counter, while the upper limit is determined by discharges occurring without incident particles. This definition is not the same as that for a plateau. The measurements were carried out on cylindrical counters of 25 mm diameter and 200 mm length. The anode was a tungsten wire of 0.06 or 0.1 mm diameter. The cathode was made of copper inactivated by a layer of tungsten. The counter was filled by a mixture of ethylene at 20 mm Hg and argon at 80 mm Hg. A 5M.ohm limiting resistor was used (Fig 1). Preliminary experiments showed that the properties of the counters rapidly deteriorated during their use. With an increasing number of pulses, the counting range decreased. This was Card due to the surface properties of the anode. The counters 1/3 could be regenerated by changing the anode, but not by

67004

CZECH/37-59-1-10/26 Influence of the Emission Properties of the Anode on the Characteristics of Geiger-Müller Counters

changing the gas filling. The counters could also be partially regenerated by heating the anode either in an oxidizing medium or in vacuum. It was found that by using an external extinction circuit, pulses did not shorten the counting range of the counter. It was further found that the best anodes were prepared by slow oxidation of the tungsten wires such as by first heating the anode in a moderate vacuum and later in air. observed phenomenon is explained by electron-emission from the anode. The number of false pulses $N_{\mbox{\scriptsize e}}$ is proportional to the number of emission centres > produced by electrons hitting the anode, to the number of all pulses N and to some function of the voltage. Near the upper limit of the counting range $N_e = N = N_k$. From this, we obtain the condition for the end of the counting range (Eq 8); x is a constant. If the anode is coated by an oxide layer, its surface contains only few electron traps. In this case the end of the counting range is caused by a different mechanism. On the other hand, the gas-filling of the counter can reduce the

Card 2/3

67004

CZECH/37-59-1-10/26

Influence of the Emission Properties of the Anode on the

Characteristics of Geiger-Muller Counters

oxide coating on the anode and thereby produce electron

traps. This mechanism explains the ageing of the

counter independently of the number of pulses, while the first mechanism described accounts for ageing which is

Card dependent on the number of pulses. 3/3

There are 3 figures and 4 references, of which 2 are

English, 1 is Soviet and 1 is Czech.

ASSOCIATION: Ústav technické fysiky ČSAV, Praha

(Institute of Technical Physics, Czechoslovak Ac.Sc., Prague)

SUBMITTED: July 7, 1958

SEIDL, R.

Properties of Geiger-Muller counters. p. 384

CESKOSLOVENSKY CASOPIS PRO FYSIKU. (Ceskoslovenska akademie ved. Ustav technicke fysiky) Praha, Czechoslovakia. Vol. 9, no. 4, 1959.

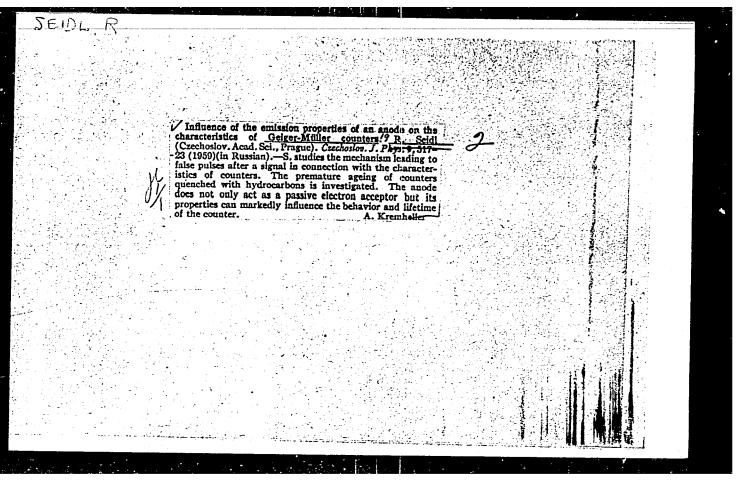
Monthly List of East European Accessions (EFAI), LC, Vol. 8, no. 10, Oct. 1959 Uncl.

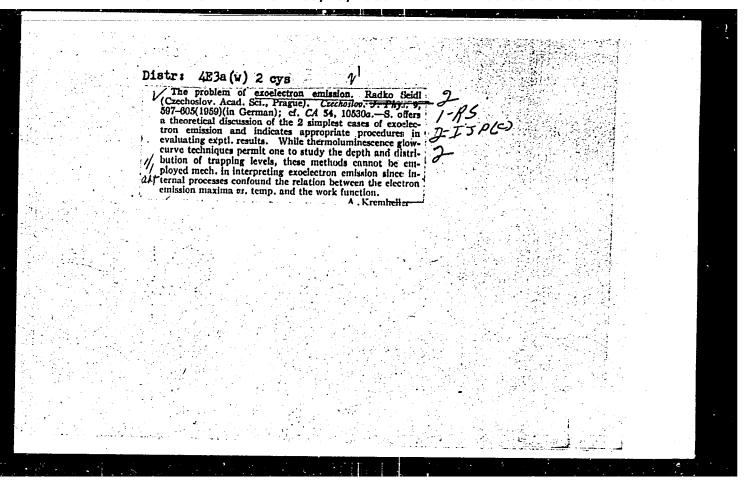
SEIDL, R.

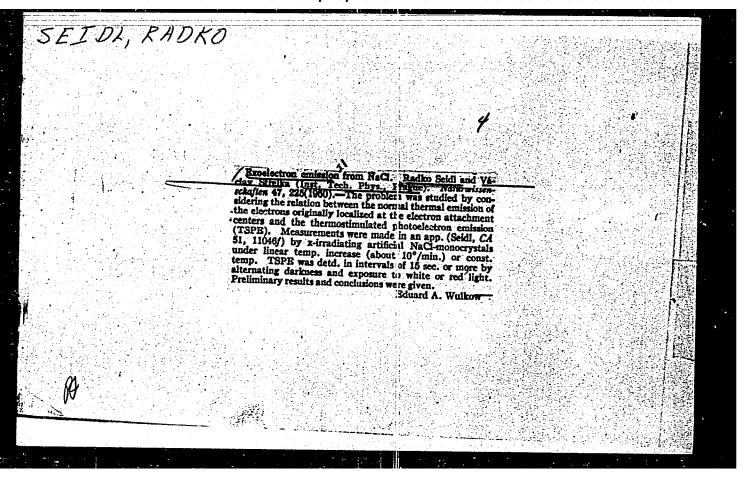
Problems of automatic regulation of the working voltage of Geiger-Muller counters. p.~417

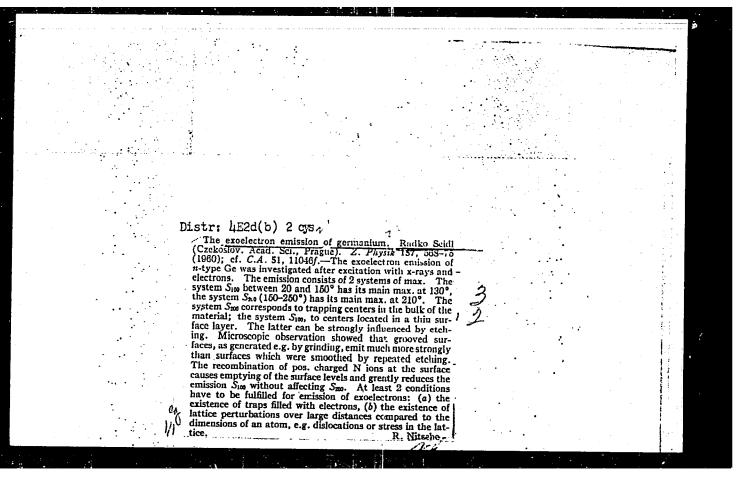
CESKOSLOVENSKY CASOPIS PRO FYSIKU. (Ceskoslovenska akademie ved. Ustav technicke fysiky) Praha, Czechoslovakia. Vol. 9,no. 4, 1959.

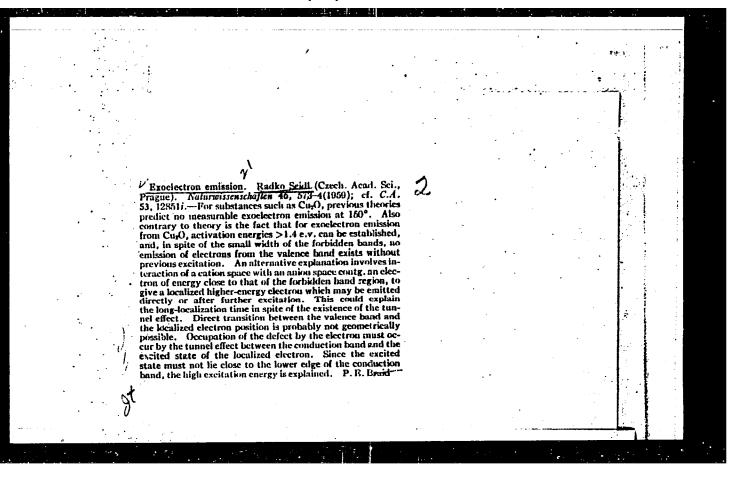
Monthly List of East European Accessions (EEAI), IC, Vol. 8, No. 10, Oct. 1959 Uncl.











5/058/62/000/011/039/061 A160/A101

AUTHORS:

Seidl, Radko, Kotiková, Milada

TITLE:

A method of treating anodes in Geiger-Müller counters

PERIODICAL: Referativnyy zhurnal, Fizika, no. 11, 1962, 29, abstract 11-3-57kh P (Czechosl. pat., cl. 21g, 18/01, no. 99422, April 15, 1961)

TEXT: An early decomposition of hydrocarbons, caused by an excelectronic emission from the anode, is sometimes observed in Geiger-Müller counters. The emission is caused by a spontaneous formation of an oxide layer on the anode, containing capture levels. To avoid this appearance, it is proposed to coat the anodes of the counters with an oxide layer in advance to allow the layer have its exact stoichiometric composition and an adequate thickness, since a considerable quantity of lattice defects arises on the boundary between the metal and the oxide. The oxidation must be carried out at a high temperature, and the cooling . gradually to maintain the attained state of the lattice. In the case of a tungsten anode, the oxidation is conducted in the air at 500°C for 10 min, and the cooling up to the working temperature is carried out at a rate of 10°C per min. [Abstracter's note: Complete translation] Card 1/1

Z/037/63/000/002/002/004 E024/E335

AUTHOR:

Seidl, Radko

TITLE:

A method for measurement of the ratio of the effective cross-sections of trapping and recombination centres

PERIODICAL: Ceskoslovenský casopis pro fysiku, no. 2, 1963,

104 - 114

TEXT: A method is described of measuring the ratio of the effective cross-sections of traps and recombination centres, based on an analysis of the dependence of the concentration of colour centres on the X-ray dose. The method is based on investigation of the influence of the cross-sections of the various centres on the distribution of electrons during irradiation with high-energy photons. n is the number of electrons in the conduction band; β is the number of electrons excited into the conduction band per unit time by photons. We assume that no electrons are thermally excited and that the lifetime τ is constant. ν , is the density of states of the i-th kind. Φ , is the trapping cross-section for electrons of this state and ν , is the number of electrons in it. We obtain:

Card 1/4

z/037/63/000/002/002/004 E024/E335

A method for measurement

$$\frac{dn_{k}}{dt} = \beta \cdot \frac{\Phi_{k}(v_{k}-n_{k})}{\sum \Phi_{k}(v_{k}-n_{k})}$$
(8)

for the special case when all are negligible compared with , which is the density of states normally full, i.e.

recombination centres. \forall_i are the states normally empty, i.e. trapping centres. We obtain: $\frac{d\alpha_i}{dt} = \frac{\beta_i}{\sqrt{i}} \frac{\Phi_i(1-\alpha_i)}{\sqrt{i+\alpha_i(1-\alpha_i)}} + \frac{\Phi_i}{\sqrt{i+\alpha_i}}.$ The quantities n_i or n_i can be measured with the aid of some quantity proportional to n_i , such as electronic conductivity, excelectron emission, etc. We measure the time-dependence $\alpha n_i = f(t)$ of some quantity proportional to n_i . If we determine a(dn,/dt) for any a, and then for 2a, we obtain:figh

$$a_{i} = \frac{\frac{1}{2} \frac{\beta}{(dn_{i}|dt)_{2a_{i}}} - \frac{\beta}{(dn_{i}|dt)a_{i}} + \frac{1}{2}}{\beta}$$
(18).

For β and (dn_i/dt) we insert the measured quantities $\alpha\beta$ and $\alpha(dn_i/dt)$. Integrating Eq. (18) and rearranging, we obtain: Card 2/4.

Z/037/63/000/002/002/004 B024/B335

A method for measurement ...

$$\frac{\Phi_0}{\Phi} = \frac{\alpha_{12} - 2\alpha_{11} + \alpha_{10}}{\alpha_{12} + \alpha_{12} + \alpha_{12} + \alpha_{13} + \alpha_{13$$

Provided we measure $\alpha n_i(\infty)$ and thus a_i , Eq. (20) can be used to determine the ratio of cross-sections. Eq. (13) is walld only for homogeneous irradiation of the sample. In practice, this cannot be realized but various techniques and corrections can be used to make Eq. (13) applicable. The method can be generalized for many centres. We start from an initial state in which all n_i are zero. From Eq. (8) we then obtain:

$$\left(\frac{da_{i}}{dt}\right)_{o} = \beta \frac{\Phi_{i}}{\sum \Phi_{i} V_{k}} \tag{46}$$

where (da,/dt) is determined from experiment with the aid of the relation:

$$\left(\frac{da_{i}}{dt}\right)_{a} = \frac{\left[d(\alpha_{i}n_{b})/dt\right]_{a}}{\alpha_{i}n_{b}}.$$
(47).

 αv_i is determined by determination of αv_i for $t \to \infty$. The Card 3/4

A method for measurement ... Z/037/63/000/002/002/004
E024/E335

ratio of the cross-sections of all the centres.

(da./dt)

can be determined from the knowledge of only one ratio. The ratio of concentrations of the various centres can also be determined by a suitable rearrangement of Eq. (8). The practical application and verification of the method will be described in a separate article.

ASSOCIATION: Ustav fyziky pevných látek CSAV, Praha.

(Institute of Solid State Physics, CSAV, Prague)

SUBMITTED: December 30, 1961

Card 4/4

ROUBINEK, Frantisek; SEIDL, Radko; STRELKA, Vaclav

Control device of universal laboratory automatic apparatus. Cs cas fys 13 no.2:115-123 '63.

1. Ustav fyziky pevnych latek, Ceskoslovenska akademie ved, Praha.

SEIDL, Radko, CSc.

Automation of worksites with great variability of partial functions. Automatizace 6 no.10:249-251 0 '63.

1. Ustav fyziky pevnych latek, Ceskoslovenska akademie ved, Praha.

s/194/62/000/007/017/160 D222/D309

AUTHORS:

Seidl, Rudolf and Hlubocký, Jindřich

Relay counter circuit

TITLE:

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 7, 1962, abstract 7-1-71 ts. (Czech. pat., cl. 21a3 28/01, 21 a1, 20/09, no. 97803, Dec. 15, 1960)

TEXT: A relay counter circuit is patented, which is suitable for various types of telephone systems. The basic use of the counter is the determination of the number of pulses in a dialling pulse train on a trunk line, and the emission of corresponding control pulses for the connection of the speech circuits at subscriber response or ring-off. The capacity of the counter is 4 pulses. The counter circuit uses 2-winding delayed relays, controlled by the dialling relays. lay. The counter operates in a binary reflex (Gray) code, in which the beginning and end of a series of pulses are assumed to be different to be different to be different to be different to be described to ferent states (the beginning and end of sending the 4th, last, sethe counter). The response of the selected subscriber is represen-Card 1/2

Relay counter circuit

S/194/62/000/007/017/160 D222/D309

ted by the firing of the dialling relay and of the 1st relay of the counter, which ensures the connection of the subscribers. At subscriber ring-off, due to the firing of the control relay, the counter reverts to the state representing the end of the 4th dialling series. The counter circuit, a description of the sequence of operations and a diagram of the relay operation are given. 2 figures. [Abstracter's note: Complete translation.]

Card 2/2

s/194/62/000/006/171/232 D201/D308

Seidl. R., and Strelka, V. AUTHORS:

Problem of Z-centers in excelectronic emission of TITLE:

alkali halide compounds

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 6, 1962, 45, abstract 6Zh297 (Chekhosl. fiz. zh., PERIODICAL:

1951, 3. 11, no. 11, 811-818)

THAT: The changes with increasing temperature in the absorption spectrum of an X-ray irradiated NaCl crystal with Ca impurities were investigated using a high speed automatic recording installation. It is established that, when the crystal is heated, only the weakening of F-band is observed with the heating of the crystal and that there are no signs of appearance of Z-zones in the process of. that there are no signs of appearance of 2-zones in the process of thermal discolouring. This contradicts the assumption of Bohun that the maximum at about 390°K of the thermally stimulated emission from NaCl - Ca corresponds to the destruction of Z-centers. The absence of the 460°K maximum, typical for NaCl in NaCl - Ca is explained by the corresponds to the fact that the destruction of Z-centers. plained by the authors by the fact that the destruction of F-centers Card 1/2

Problem of Z-centers in ...

S/194/62/000/006/171/232 D201/D308

is caused by ion processes, the character of which changes when Ca is introduced. The possible character of the above processes is discussed. 16 references. [Abstracter's note: Complete translation.]

Card 2/2

5/194/62/000/012/099/101 D271/D308

Seidl, Rudolf and Plecity, Václav

Criterion forming circuit for register impulsing AUTHORS:

Referativnyy zhurnal, Avtomatika i radioelektronika, TITLE: no. 12, 1962, 20, abstract 12-8-39 1 (Czech. pat., PERIODICAL:

cl. 21a³, 32/20, no. 98135, Jan. 15, 1961)

TEXT: An automatic exchange circuit is patented, intended for control of register impulsing. It consists of two relay sets, the Lirst of which counts received pulse trains and the other counts pulse trains sent from the register via the appropriate contacts of both sets. Relay contacts of the first set, dependent on the number of received digits, are switched in such a manner that a galvanic connection is established between the input and the contact signifying the number of received digits. Depending on the number of digits sent out, relay contacts of the second set form a galvanic connection between the output and the contacts which regalvanic connection between the output and the contacts which regalvanic connection between the output and the contacts which regalvanic connection between the output and the contacts which record how many of the received digits still remain to be transmitted

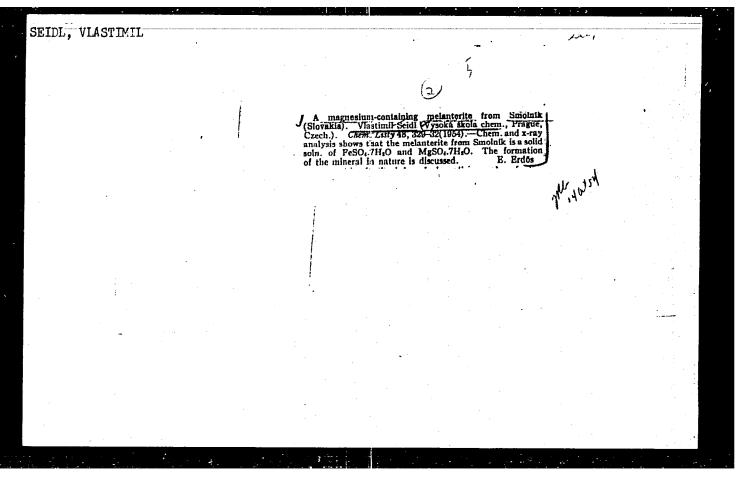
Card 1/2

Criterion forming circuit ...

S/194/62/000/012/099/101 D271/D308

or have already been transmitted. Contacts of both relay sets are interconnected in a manner suitable for the required correlation between the numbers of the received and transmitted digits. Depending on the way in which the contacts are interconnected, criteria (conditions) are formed which determine whether the next incoming digit is to be retransmitted immediately after its reception from the dialling subscriber, or whether a delay is required. Abstracter's note: Complete translation.

Card 2/2



COUNTRY

: Czceloslovuzlu

B-5

CATEGORY

AES. JOUR. : AZKhim., Ro.

1950. 20. (5008

SORTUA

tidejdi, V.; Dubansky, A.

TMST.

rungher control of Chemical Engineering, Prague

TITLE

: On Methiodide of 2,6-Diksopropylpyridine (Some Physical and Structural Data).

ORIG. PUB. : 3b. Vysoke skoly ches .- technol. Prage. Cdo.

Fig. anorgan. a organ. technol., 1957. Praha, *
ABSTRACY : Roentgenographic (rowder method) proof of the
attractural identity of methodide of 2,(-diisopropylpyri-

oine recovered from the reaction mixture in the form of terrugues. Letrahedrons, and from acctone solution in the Ferm of Terragonal, tapular crystals, moentgenographic we issenderg and robation methods) determination of istrice Figureto's: a 16.2, c 20.8 kX, Q 1.472, probable F. gr. Figure. In fraction indices: ng 1.657, ne 1.598. The crystals

are optically uniaxial. -- From authors ! summary.

TARD:

Statul med. nukl., 1957, 167-178.

UR RELEASE: UO/25/2000

SEIDL, Vlastimil

Structure of sodium aluminum hydride II. Sbor chem tech no.3, part 2:37-47 '59.

1. Katedra mineralogie, Vysoka skola chemicko-technologicka, Praha.

S/081/62/000/002/004/107 B149/B108

AUTHOR:

Seidl, Vlastimil

TITLE;

Structure of complex sodium alumohydride. I

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 2, 1962, 33, abstract 2B217 (Sb. Vysoké skoly chem.-technol. Praze. Odd. Fak.

anorgan, a organ, technol., no. 2, 1958, 5-12)

TEXT: Large crystals of NaAlH₄ (> 2 mm) have been investigated. The crystals are tetragonal-dipyramidal or tetragonal-pyramidal. The double refraction is negative. The lattice parameters were determined by Weissenberg's X-ray technique (λ Cu): a 5.02, c 11.31, Z = 4, Fedorov symmetry groups I4₁ and I4₁/a. [Abstracter's note: Complete translation.]

Card 1/1

SEIDL, Vlastimil

X-ray data of Pisekite. Shor chem tech 4 no.1:223-227 60. (EEAI 10:9)

Katedra mineralogie, Vysoka skola chemicko-technologicka, Praha.
 (Pisekite)

SEIDL, V.; ERBENOVA, M.; FALTA, S.; BLATTNY, C., jun.

Testing methods of the proliferation virus in apple trees. Vestnik vyzk zemedel 9 no.7:345 '62.

1. Vyzkumny ustav ovocnarsky, Holovousy (for Seidl, Erbenova and Falta). 2. Vysoka skola chemicko-technologicka, Praha (for Blattny).

Ĺ

SEIDL, Vojtech, inz., CSc.

Roof grafting, a prospective testing method against virus disease of apple tress. Vest ust zemedel 10 no.10/11: 368-369 '63.

1. Vyzkumny ustav ovocnarsky, Holovousy.

SETDL, Z.

Double stars. p. 41. (Casopis Ceskoslovenskych Ustavnu Astronomickych, Vol. 6, No. 3, 1956, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl